

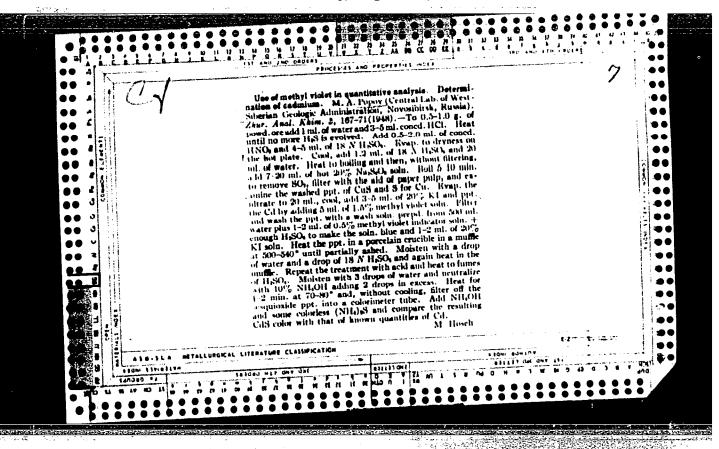
The commutation of butyl alrehals in the presence of catalysts. p. 1109.

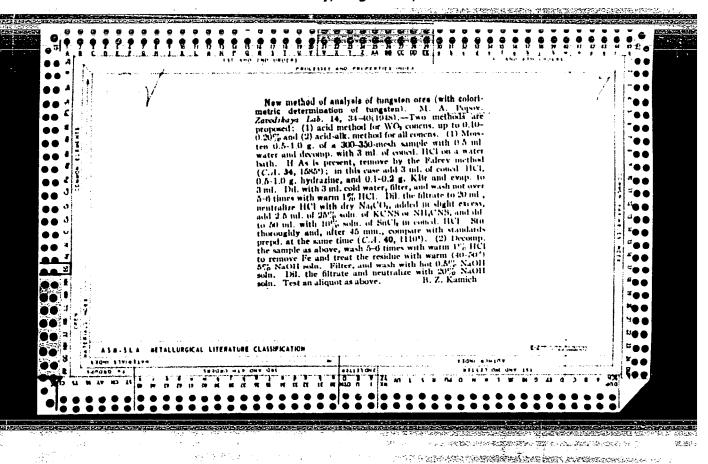
The position of the hydroxyl group in butyl sleokolo have a prest influence in the yield of the next. The reaction proceeds best with primary sleohols. I condary sleohol amin tes less and only in the presence of active carbon. Fortiary leshol gives an indignificant aspint of satings.

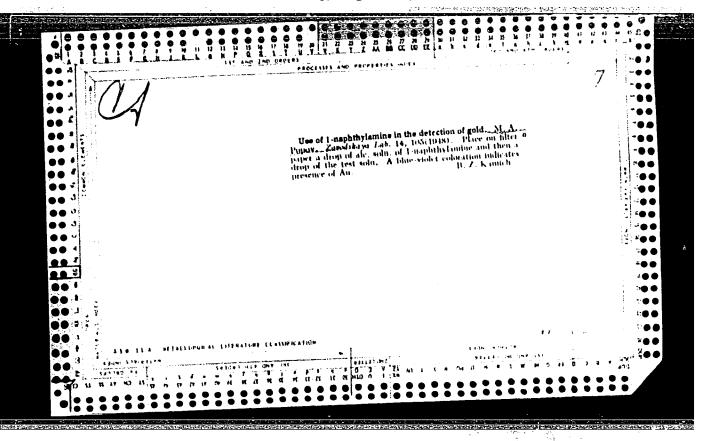
L b. of Organic Che . of the Grimean Stalin Inst. of Medicine. February 18, 1947

30: Journal of General Chemistry (USS1) 18 (80) Ha.  $^{\prime\prime}$  (1942)

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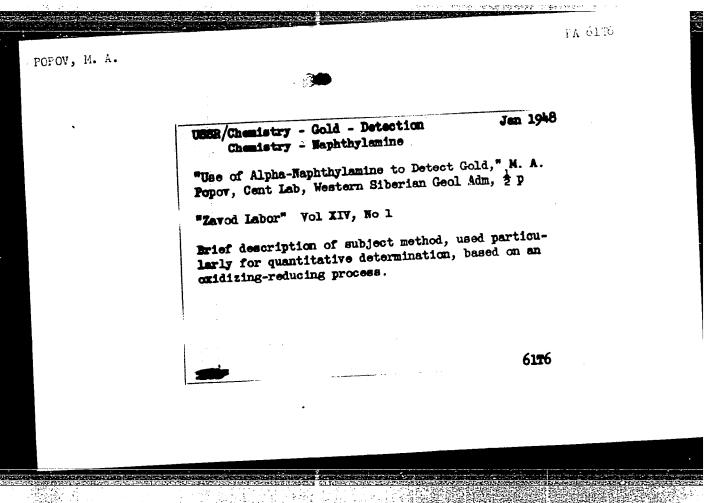




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## "APPROVED FOR RELEASE: Tuesday, August 01, 2000

# CIA-RDP86-00513R001342



PA 6/T16

POPOV, M. A.

B/Charletry - Isobityl Alcohol Chemistry - Amination

"Catalytic Amination of Primary Incomtyl Alcohol," M. A. Popov, Lab Org Chem, Crimean Med Inst imeni I. V. Stalin, 5 PP

"Zhur Obshch Khim" Vol IVIII (IXIX), No 5

Studies on 11 catalysts showed that activated charscal (I) and platinized silical gel (II) produce best results. Optimum temperature when using I is 400 to 4500, while for II it was between 350 and 1000 . More gas is released when using II. More hydrogen is released when alcohol is aminized with II as a catalyst. Submitted 18 Feb 1947.

6**971**6

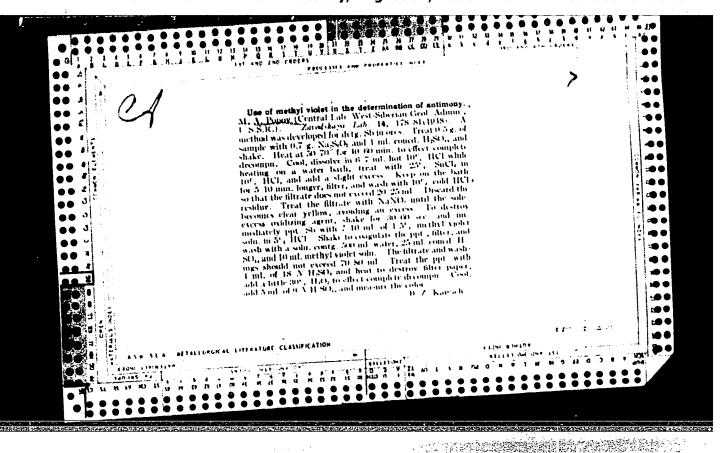
UNSER/Chemistry - Analysis, Quantitative May/Jun 1948.

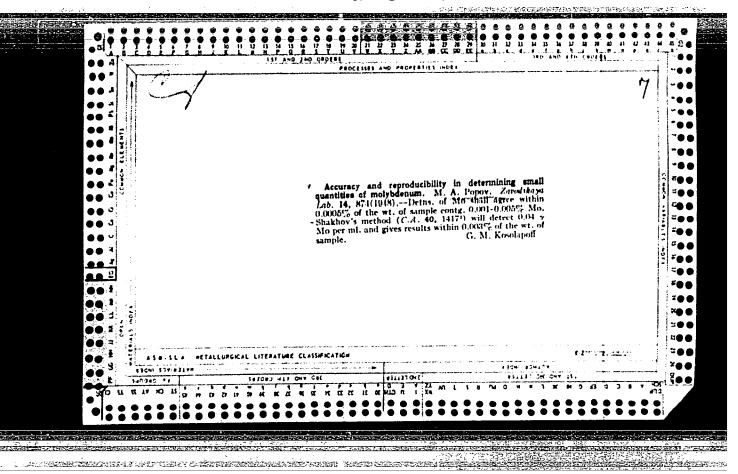
Chemistry - Cadmium, Analysis,
Determination

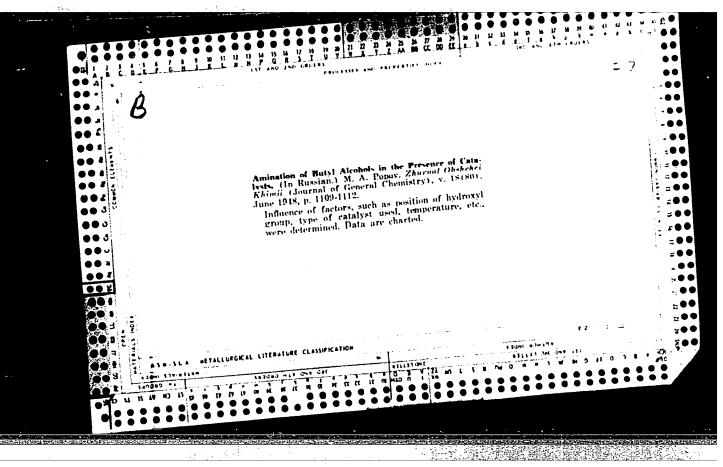
"The Use of Methyl Violet in Quantitative Analysis,
Determination of Cadmium," M. A. Popov, Con Lab,
Western Siberia Geol Adm, Novosibirsk, h2 pp

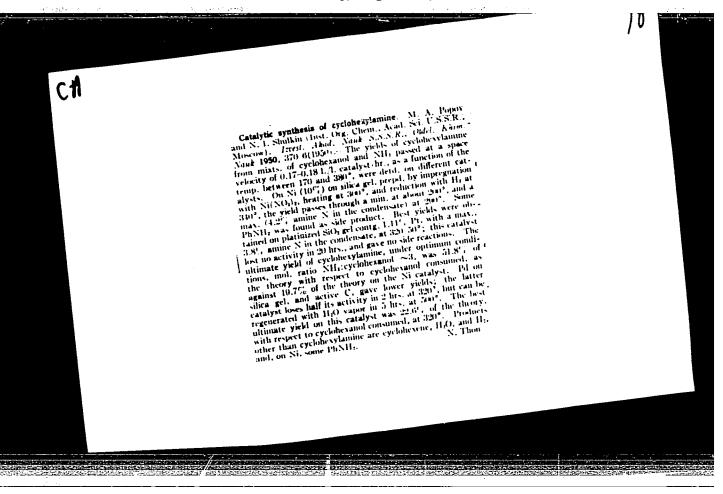
"Zhur Analit Khimii" Vol. III, No 3

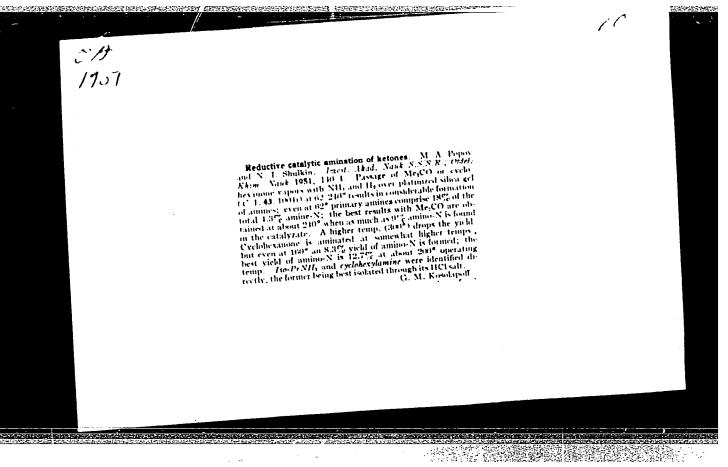
Describes new method for quantitative separation of cadmium with aid of methyl violet. Method is simple, cadmium with aid of methyl violet. Method is simple, and is gives completely satisfactory results, and is adaptable for mass operation. Submitted Jun 1947.











POPOV, M.A.

Methods of accelerated chemical analysis. Trudy lab.geol. upr. no.1:9-30 '51. (MLRA 7:11)

l. TSentral'naya laboratoriya Zapadno-Sibirskogo geologicheskogo upravleniya.

(Mineralogy, Determinative) (Ores--Sampling and estimation)

FOFOV, M. A.

FOFOV, M. A. - "Action of Ammonia on Certain Oxygen-Containing Organic Compounds in the Presence of Catalysts." Sub 9 Cct 52, Inst of Organic Chemistry, Acad Sci USSR. (Dissertation for the Degree of Doctorates in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

POPOV, M. A.

 $\frac{M_{\bullet}\ A_{\bullet}\ Popov}{P_{\bullet}\ 1l_{1}O_{\bullet}}$  and N. I. Shuikin. A reductive contact-catalytic amination of ketches.

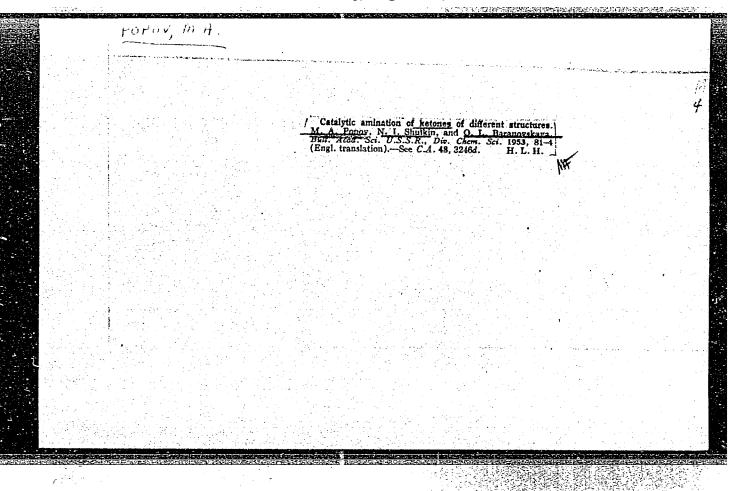
Inst. of Organic Chem. Acad. of Sci., USSR. Dec. 13, 1950.

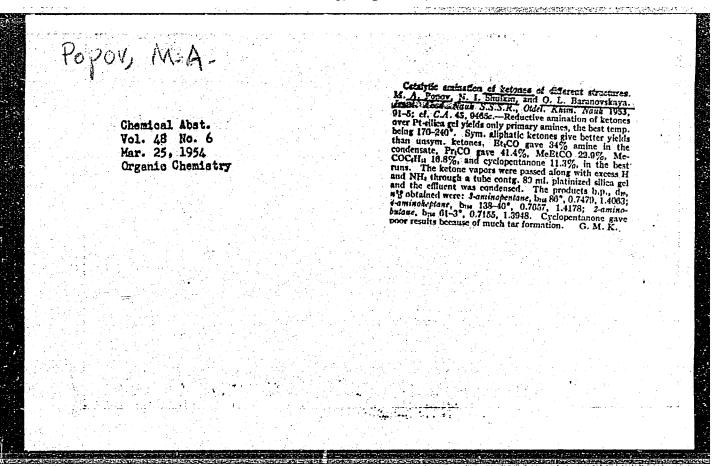
SO: Bulletin of the Acad. of Sciences, Izvestia (USSR) Section on Chemical Sciences, No. 2. (March-April 1951)

POPOV, M.A.; TITOV, V.I., redaktor; BORISOV, A.S., rodaktor.

[Field methods of chemical analysis] Polevye metody khimicheskogo analiza. Izd. 2. Moskva, Gos. izd-vo geol. lit-ry. 1953. 125 p. (MLEA 7:1)

(Mineralogy, Determinative) (Colorimetry)





USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 40 - 15/26

Authors

Popov, M. A., and Shuykin, N. I.

Title

Catalytic amination of alcohols

Periodical : Izv. AN SSSR. Otd. khim. nauk 2, 308 - 313, Mar-Apr 1955

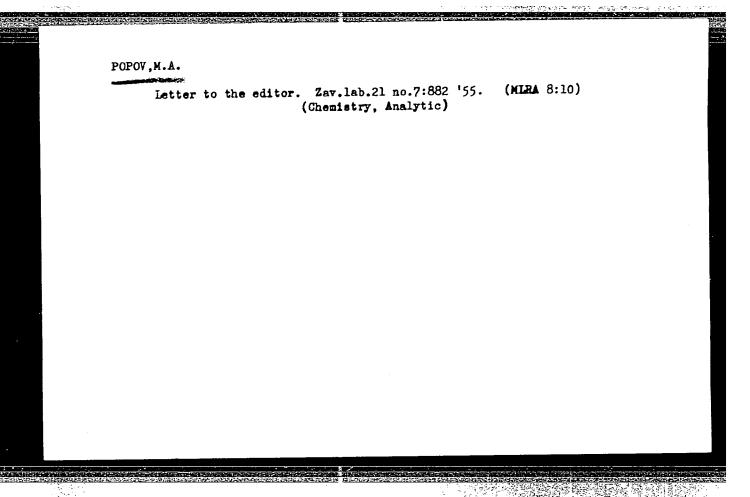
Abstract

\* Experiments were conducted to determine whether the conversion of alcohols into amines is followed by an intermediate phase of formation of aldehydes, ketones, ethers or unstable alcohol-catalyst compounds. It was established that amines are formed during catalytic amination of alcohols through direct separation of water elements from the alcohol and ammonia molecules or directly from the amine or alcohol during their collision on the surface of the catalyst. The most favorable conditions for the amination of alcohols were found to be in the presence of platinum coated silica gel or active carbon as catalysts. Twenty-six references: 11 Russian and USSR, 10 German, 2 USA and 3 French (1880-1953). Tables.

Institution: Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Submitted

March 16, 1954



#### POPOV. M.A.

"Qualitative analysis of ores and minerals by trituration". Zav.lab.21 no.10:1271-1272 '55. (MIRA 9:1)

1.TSentral'naya laboratoriya Zapadno-Sibirskogo geologicheskogo upravleniya.
(Ores--Sampling and estimation)(Chemical tests and reagents)
(Isakov, P.M.)

POPOV, M.A.

Coprecipitation of lead with barium in the presence of excessive sulfuric acid. Zav.lab.21 no.12:1430-1431 '55. (MLRA 9:4)

1.TSentral'naya laborateriya Zapadne-Sibirskoge geolegicheskege upravleniya.

(Lead--Analysis) (Barium--Analysis)

POPOV, M.A.

USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 22 - 21/51

Authors

Popov, M. A., and Shuykin, N. I., Memb. Corresp. of Acad. of Sc. USSR

Title

\* Catalytic synthesis of cyclopentylamine

Periodical :

Dok. AN SSSR 101/2, 273-276, Mar 11, 1955

Abstract

The synthesis of cyclopentylamine (high yield) through reduction amination of various ketones in vaporous phase in the presence of a suitable catalyst is described. In view of the fact that the catalyst in this case was required to produce reducing and amination effects it was decided to use nickel on pumice or nickel on active Al<sub>2</sub>O<sub>3</sub> in the role of catalysts. The choice of the above-mentioned catalysts was found to bring successful results. Five references: 2 USSR, 2 German and 1 French (1885-1953). Table.

Institution:

Acad. of Sc. USSR, The N. D. Zelinskiy Inst. of Org. Chem.

Submitted

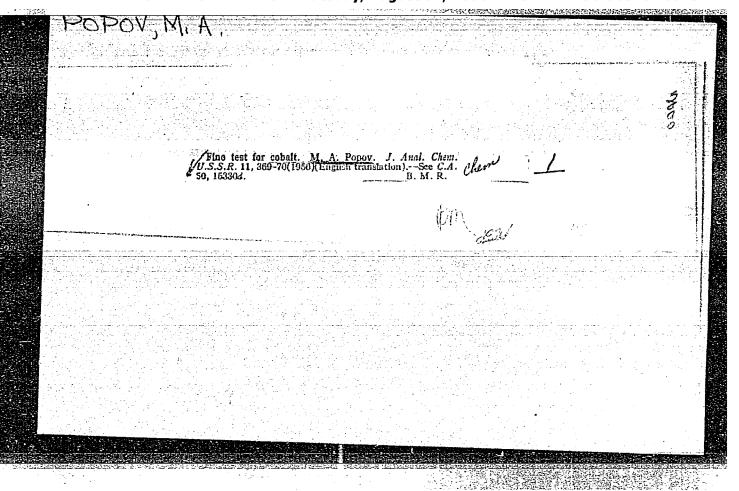
October 4, 1954

### POPOV, N.A.

Fractional reaction for cobalt. Zhur.amal.khim. 11 pa, 3:357-358

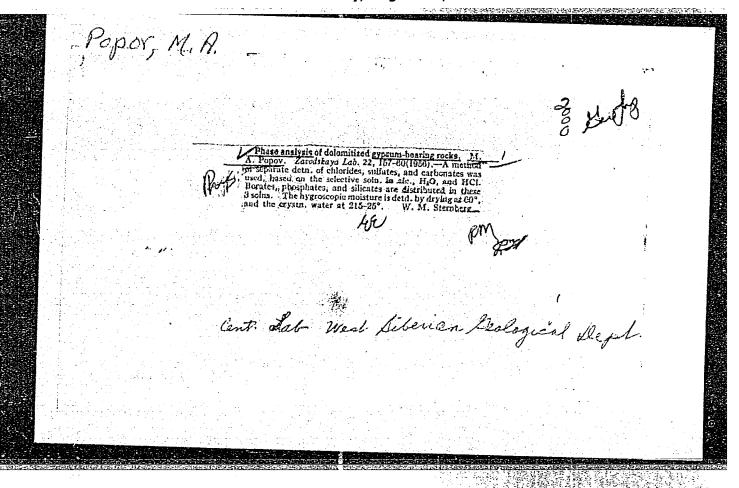
My-Je '56. (NLRA 9:8)

1. TSentral'naya laboratoriya Zapadne-Sibirskega geologicheskogo (Cobalt)



"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342



### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, M.A.: SHUYKIN, N.I.; BEL'SKIY, I.F.

Action of ammonia upon cycloheptanone in the presence of nickel catalyst. Izv.AN SSSR.Otd.khim.nauk. no.7:858-862 Jl '57.

(MIRA 10:10)

1.Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

(Ammonia) (Cycloheptanone) (Catalysts, Nickel)

AUTHORS:

Popov, M. A., Shuykin, N. I.

507/62-58-6-10/37

TITLE:

The Catalytic Synthesis of Nitryls(Kataliticheskiy sintez nitrilov) Communication 1. The Cyanizing of Butanol-1 by Means of Ammonia in the Presence of Nickel-Alumina-Catalyzers (Soobshcheniye 1. Tsianirovaniye butanola-1 ammiakom v prisutstvii nikel'glinozemnykh katalizatorov)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1958, Nr 6, pp. 713 - 718 (USSR)

ABSTRACT:

According to the authors' opinion olefines and alcohols belong to the most easily accessible substances which it is possible to convert into nitryls under the influence of ammonia. Because of the great practical importance of nitryls the authors endeavored to find an efficacious catalyst in order to bring about the synthesis of alcohol or olefine and ammonia. Butanol-1 and hexene-1 served as the initial substances for the investigation. Investigations were carried out of the reaction of the cyanizing of butanol-1 by ammonia in the presence of various samples of the nickel-alumina catalyst at temperatures of 240 - 400° and under atmospheric pressure. For the cyanizing of butanol-1 a catalyst

Card 1/2

507/62-58-6-10/37 The Catalytic Synthesis of Nitryls. Communication 1. The Cyanizing of Butanol-1 by Means of Ammonia in the Presence of Nickel-Alumina-Catalyzers

> was found to be the most effective which consists of 3% reduced nickel on active aluminum oxide. In the presence of this catalyzer (at 300°) an 81,5% yield of nitryl (of n.butyrate) could be obtained. Under similar conditions and in the presence of a cobalt-nickel catalyst of hexene-1, only 3,8 to 6,7% of the corresponding nitryl is formed. There are 2 tables and 11 references, 3 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk

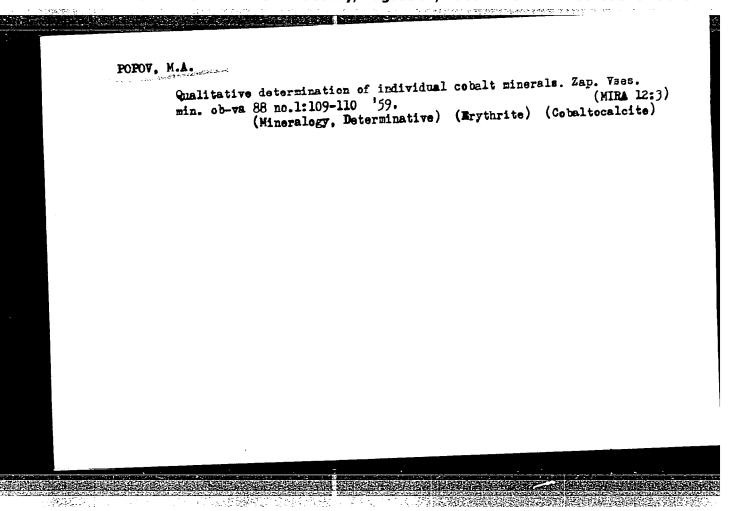
SSSR(Institute of Organic Chemistry imeni N.D. Zelinskiy, AS USSR)

December 4, 1956 SUBMITTED:

> 2. Butanol--Chemical reactions 3. Ammonia 1. Nitryls--Synthesis 5. Alumina-nickel 4. Hexene--Chemical reactions -- Chemical reactions

catalysts--Performance 6. Cobalt-nickel catalysts--Performance

Card 2/2



S/062/60/000/008/021/033/XX

BO13/BO55

53610

1153 2209 1375

Popov. AUTHORS:

A. and Shuykin, N. I.

TITLE:

Catalytic Synthesis of Nitriles. Communication 3. Prepara-

tion of Aromatic Nitriles

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1960, No. 8, pp. 1451-1456

TEXT: The present paper deals with the catalytic synthesis of nitriles from aromatic alcohols and ammonia in the presence of nickel/aluminumoxide catalysts. The investigation was undertaken with a view to finding the most suitable conditions of synthesis, and to study the effect of the phenyl radical on the composition of the reaction products. Experiments were performed with benzyl alcohol,  $\beta$ -phenyl ethanol and  $\gamma$ -phenyl propanol. The reaction was carried out at 270-390 C and atmospheric pressure in a continuous system. The catalysts contained 3, 7.5 and 15% reduced nickel precipitated on aluminum oxide. Catalyst preparation and experimental apparatus have been described in Ref. 7. Systematic experiments showed that at 390°C, benzonitrile is formed from ammonia and benzyl alcohol on a 3% nickel/aluminum-oxide catalyst in 51.7% theoretical yield. The Card 1/3

86413

Catalytic Synthesis of Nitriles. Communication 3. S/062/60/000/008/021/037/XX Preparation of Aromatic Nitriles B013/B055

reaction of  $\beta$ -phenyl ethanol with ammonia at 300°C and of  $\gamma$ -phenyl propanol with ammonia at 330°C over 7.5% nickel/aluminum-oxide catalysts also lead to the formation of the corresponding phenyl acetonitrile (44.8% yield) and  $\beta$ -phenyl propionitrile (50.8% yield). The authors describe the reaction conditions given above as optimal. The following reaction mechanism is assumed to explain the formation of small quantities of amines and aromatic hydrocarbons as by-products in the cyanation of aromatic and aliphatic (Ref. 7) alcohols. The experiments showed that the amine formation is independent of the amount of nitrile formed. The first step is therefore assumed to be the conversion of alcohol to the primary amine. Formation of secondary and tertiary amines can then proceed according to the scheme:  $2ArCH_2NH_2 \longrightarrow (ArCH_2)_2NH + NH_3$ . Part of the ammonia is decomposed to nitrogen and hydrogen on the catalyst surface:  $2NH_3 \longrightarrow N_2 + 3H_2$ . The hydrogen so formed, together with the hydrogen formed in the main reaction, reduces a certain amount of the final nitrile to the aromatic hydrocarbon. There are 4 tables and 24 references: 6 Soviet, 8 US, 6 German, 6 French, 3 British, and 1 Belgian. Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. ASSOCIATION: Zelinskiy of the Academy of Sciences USSR) Card 2/3

Catalytic Synthesis of Nitriles. Communication 3. S/062/60/000/008/021/033/XX Preparation of Aromatic Nitriles B013/B055

SUBMITTED: February 2, 1959

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Card 3/3

# POPOV, M.A. Titration of calcium with trilon in the presence of large amounts of aluminum. Zav.lab. 26 no.5:540-542 160.

(MIRA 13:7)

1. TSentral'naya laboratoriya Novosibirskogo geologicheskogo upravleniya.

(Calcium--Analysis) (Aluminum)

S/032/60/026/06/40/044 B010/B016

AUTHOR:

Popov, M. A.

TITLE:

Exhibition of Reagents of the Republic of Czechoslovakia

in Novosibirsk

PERIODICAL:

Zavodskaya laboratoriya, 1960, Vol. 26, No. 6, p. 776

TEXT: The company "Chemapol" arranged in Novosibirsk, from March 16 to 26, 1960, an exhibition of reagents and preparations manufactured in Czechoslovakia. In 16 stands about 300 reagents (among them 200 organic ones) were shown. Of particular interest were the complexometric indicators and indicator papers. The Sibirskoye otdeleniye Akademii nauk (Siberian Branch of the Academy of Sciences), the sovnarkhoz and Novosibirskoye otdeleniye Vsesoyuznogo khimicheskogo obshchestva im. D. I. Mendeleyeva (Novosibirsk Department of the All-Union Chemical Society imeni D. I. Mendeleyev) were presented with the exhibits for gifts. J. Zyka, Professor of the Prague Karl University delivered two lectures on the research work done by its chemists.

Card 1/1

राज्यक्षित्रक्षात्रक अवस्ति क्रिसिक्यांस्त्रीस्त्राकाराकाराक्रीकर

### POPOV, M.A., nauchnyy sotrudnik

Use of ozone for the final treatment of effluents of an oil refinery; preliminary report. Gig. i san. 25 no. 5:92-93
My '60. (MIRA 13:10)

l. Iz Omskogo nauchno-issledovatel'skogo instituta epidemiologii, mikrobiologii i gigiyeny.

(PETROLEUM WASTE) (OZONE)

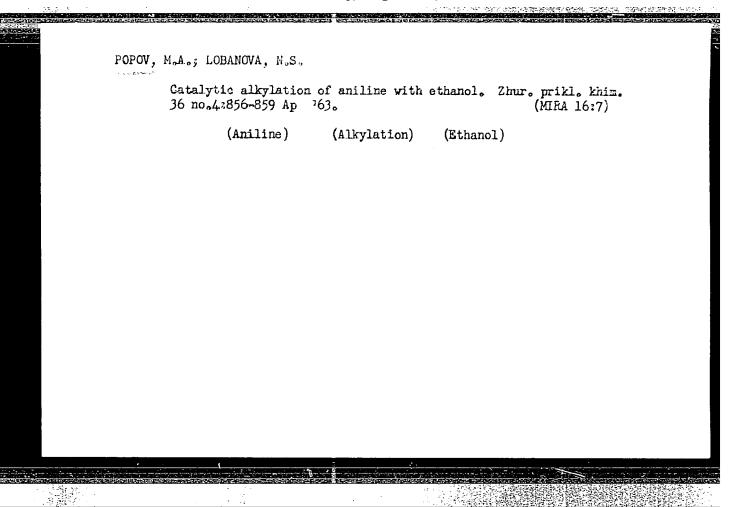
L 45615-65 EWT(1)/EWG(v) Po-4/Pa-5/Pq-4/Pac-4/Pae-2 ACCESSION NR: AP5006456 8/0021/65/000/002/0196/01 AUTHOR: Popov, M. A. (Popov, N. A.) TITLE: Determination of the period of free diurnal mutation of the earth by lati-SOURCE: AN Ukrssr. Dopovidi, no. 2, 1965, 196-199 TOPIC TAGS: earth nutation, nutation period, nutation amplitude, latitude observa-ABSTRACT: The earth's nutation is found to have an amplitude a = 0.020" ± 0.004" on the basis of a long series of latitude observations carried out in 1939 - 1963 at the Poltava Observatory on the two bright zenith stars a-Persei and n-Ursae Majoris. The measurements were made with a Zeiss zenith telescope (d = 135 mm, F = 1760 mm). To check on the degree to which the theoretically calculated period of the nutation corresponds to the observed value, the amplitudes were calculated for nine different values of the periods, ranging from 23h56m47s to 23h57m01s have shown that the maximum of the amplitude curve corresponds to 23h56m53.5s Card 1/2

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000

### CIA-RDP86-00513R001342

denskiy for a model in which the earth has a liquid and oblate core. This report was presented by S. I. Subbotin. Orig. art. has; I figure, 3 formula, and 1 to ASSOCIATION: Poltave kaya gravimetrychna observatoriya AN URSR (Poltava Gravimetric Observatory AN URSSR)	denskiy for a model in which the earth has a liquid and oblate core. This represented by S. I. Subbotin. Orig. art. has; I figure, 3 formula, and I association; Poltave kaya gravimetrychna observatoriya AN URSR (Poltava Gravimetric Observatory A artificial Company of the Color	ACCESSION NR: AP5006456					
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### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342



POPOV, M.A.; SHUYKIN, N.I.

Catalytic synthesis of nitriles. Report No.3: Preparation of aromatic nitriles. Izv. N SSSR Otd.khim.nauk no.8:1451-1456 Ag (MIRA 15:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Nitriles)

# Crawling of rock and safeguarding structures at mines in the Krivoy Rog Basin. Gor. zhur. no.4:64-68 Ap \*61. (MIRA 14:4) 1. Glavnyy marksheyder upråvleniya gornodobyvayushchey promyshlennosti Dnepropetrovskogo sovnarkhoza. (Krivoy Rog Basin—Iron mines and mining) (Mining geology) (Earth movements)

POPOV, M.A.; SHUYKIN, N.I.

Catalytic synthesis of nitriles. Report No.5: Cyanation of isostructural alcohols by ammonia. Izv.AN SSSR.Otd.khim.nauk no.10:1855-1858 0 '61. (MIRA 14:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Alcohols) (Ammonia)

ZOLOTAVIH, V.L., prof.; RESHETHIKOVA, Ye.A.; PILIPENKO, A.T. (Kiyev); SHCHERBOV, D.P. (Alma-Ata); POPOV, M.A.; NAZARCHUK, T.H.

Supplying laboratories with chemical reagents. Zav.lab. 26 no.8:1034-1036 60. (MIRA 13:10)

l. Ural'skiy politekhnicheskiy institut, Sverdlovsk (for Reshetnikova). 2. Rukovoditel' metodicheskoy gruppy TSentral'noy laboratorii Novosibirskogo geologicheskogo upravleniya (for Popov). 3. Zaveduyushchiy laboratoriyey khimicheskogo i fazovogo analiza Instituta metallokeramiki i spetsial'nykh splavov AN'USSR (for Nazarchuk).

(Chemical laboratories) (Chemical tests and reagents)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

POPOV, M.A.; SHUYKIN, N.I.

Catalytic synthesis of nitriles. Report Ho. 4: Cyanation of allyl alcohol by ammonia. Izv.AN SSSR Otd.khim.nauk no.4:645-648 Ap \*61.

l. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Allyl alcohol) (Propionitrile)

MARINESCU, Ioan, ing. (Bucuresti); POPOV, Mihai, ing. (Bucuresti); TATARU, Nicolae, Ing. (Bucuresti)

Employment of the analogue computer to solve the circuits with three and four energy accumulators. Electrotehnica 9 no.10:351-357 0 '61.

1. Cercetator la Institutul de Cercetari Electrotehnice (for Marinescu). 2. Sef al Laboratorului de automatizari de la Institutul de Energetica al Academiei R.P.R. (for Popov).
3. Cercetator la Institutul de Energetica al Academiei R.P.R. (for Tataru).

DVORYANKIN, F. A.; POPOV, M. D.

Paleontology

In defense of Darwinism in paleontology. Izv. AN SSSR Ser. biol. No. 1, 1953.

1953, **U**ncl. SO: Monthly List of Russian Accessions, Library of Congress,

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

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FCFOV, h. m.

Tiutiun, Tobacco. Sofiia, Zemiziat, 1951. 416 p.

1. Tobacco - Bulgaria. I. Popov, M. D.
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### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

FOROV, M..

Popov, M., Popov, I., "Method for Melucing Micotine in Tobacco." p.2.9 (12/12/11), Vol. 2, 1951, Bofiya.)

SO: Monthly List of Mast European Accessions, Vol. 3, No. 3, Library of Congress, March 1954, Uncl.

И

BULGARIA/Cultivated Plants. Grains.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20292.

Author : M. D. Popov

: Biological Institute of the Bulgarian Academy of Sciences. Inst : The Stimulation of Rice, Corn and Wheat Seeds with Peni-Title

cillin. (Stimulirovaniye semyan risa, kukuruzy i pshenitsy

renitsillinom)

Orig Pub: Dokl. Bolg. AN, 1956, 9, No 4, 77-80.

Abstract: The experiments were conducted in the Institute of Biology

of the Bulgarian Academy of Sciences. The seeds were ger-

minated and then kept during 30 days in a solution of

penicillin having concentrations of 0; 10,000; 50,000; 100,000; 200,000; and 300,000 units. This method stimulates the germination and sprouting of seeds and even increases the pro-

ductivity of the plants.

: 1/1 Card

> CIA-RDP86-00513R0013423 APPROVED FOR RELEASE: Tuesday, August 01, 2000

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOY 181.

BULGARIA / General Biology. Genetics.

B-5

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 47611

Author

: Popov, M.

Inst

: Bulgarian Academy of Sciences

Title

: Studies on Heterosis in Tobacco Plants

Orig Pub : Doklady Bolgar Akad Nauk, 9, No 4, 81-83 (1956)

Abstract : The crossing of eastern cigarette-type Kozarsko tobacco No 541 of the Parushchitsa variety (paternal form) with largeleaf cigarette tobacco of the Virginia Brayt variety (maternal form) is reported. A heterosis effect is observed as early as the germination stage; this effect is intensified with the age of the hybrids. Hybrid plants were found to be

80% higher than the starting parental varieties and to

produce 56.6% more leaves.

Card 1/1

22

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

: Eulgaria Country M : CULTIVATED PLANTS. General Problems. CATEGORY 1959, No: 1556 ABS. JOUR. ! RZBiol., No. 1 :Popov. M.J. AUTHOR :Inst. of Biology, Eulgarian Acad. Sciences MIST. :Penicillin Stimuletion of the Seeds of Agri-TITLE cultural Crops ORIG. PUB. ; Izv. In-ta biol. B"lg. AN, 1957, 8, 27-48 : This is a preliminary report on seed stime-TOASTEEA lation of mice, corn, winter whene, bean and onion. The seeds were socked in aqueous solutions (distilled water) in various concentrations. When suitable solution concentrations and the proper times very observed in soaking the seeds, penicillin stimulated growth and development of the plants (boosting the yield, producing healthier shoots and earlier spiking). The individual cultures 1/2 CARD:

POPOV. M.

SCIENCE

Periodical: IZVESTILLA. BULLETIN Vol. 8, 1957

POPOV, M. Investigation on the quality of the tobacco seedlings and its affect on the growth, development, and productivity of the tobacco. p. 153.

Monthly List of East Furopean Accessions (EEAI), IC. Vol. 8, no. 2 February 1959, Unclass.

### POPOV, M.

Investigating the stimulating effect of potassium bromide and hexachlorae on maize, cultivated under various soil moisture. p. 109

Bulgarska akademiia na naukite. Institut po biologia "Metodi Popov." IZVENTIIA. BULLETIN. Sofia, Bulgaria., Vol. 9, 1958

Monthly List of Fast European Accessions (MEAI), IC, Vol. 8, No. 12, December 1959 Uncl.

### POPOV, M.

Experiments in stimulation of seeds from cultivated plants with ultrasonic eaves. p. 135.

Bulgarska akademiia ne naukite. Institut po biologia "Metodi Popov." IZVESTIIA, BULLETIN. Sofia, Bulgaria, Vol. 9, 1958

Monthly List of Past European Accessions (\*FAI), IC, Vol. 8, Mo. 12, December 1959 Uncl.

### POPOV, M.

"Influence of penicillin on the formation of roots of buds of certain plants." In French. p. 65

DOKLADY. Sofiia, Bulgaria, Vol. 12, No. 1, January/February, 1959.

Monthly List of East European Accessions (EEAI), IC, Vol. 9, No. 2, February, 1960. Uncl.

```
Testing the influence of penicillin on the growth of beans and rice under sterilized conditions of cultivation. Izv Inst biol BAN 10: 227-245 *60. (PENICILLIN) (RICE) (HEANS)
```

```
POPOV, Mikh.D.
          Experiments in stimulating millet with chemical substances in containers. Izv Inst biol BAN 10:281-287 '60. (EEAI 1
                                                                                               (EEAI 10:4)
                      (MILLET)
(CHEMICALS)
                      (GROWTH (PLANTS))
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Experiments in stimulating onions barley, and peas with uranyl acetate. Izv Inst biol BAN 10:297-304 '60. (EEAI 10:4) (ONIONS) (BARLEY) (FEAS) (URANYL ACETATES) (GROWTH (PLANTS))
```

POPOV, M. D.

Testing the stimulating action of penicillin and aureomycin on beans and peas. Izv Inst biol BAN 11:109-127 '61. (EEAI 10:9)

(PENICILLIN) (CHLORTETRACYCLINE) (BEANS) (PEAS)

Testing the stimulating action of gibberellin and other active substances on cultivated plants. Izv Inst biol BAN 11:129-159 '61.

(Gibberellin) (Plants)

Gibberellin and its effect on plants. Prir 1 snanie 14 no.3:
7-9 '61. (REAL 10:7)

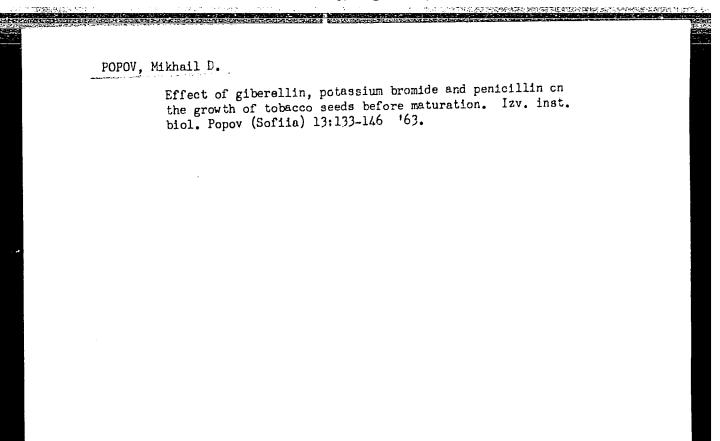
(Gibberellin) (Plants)

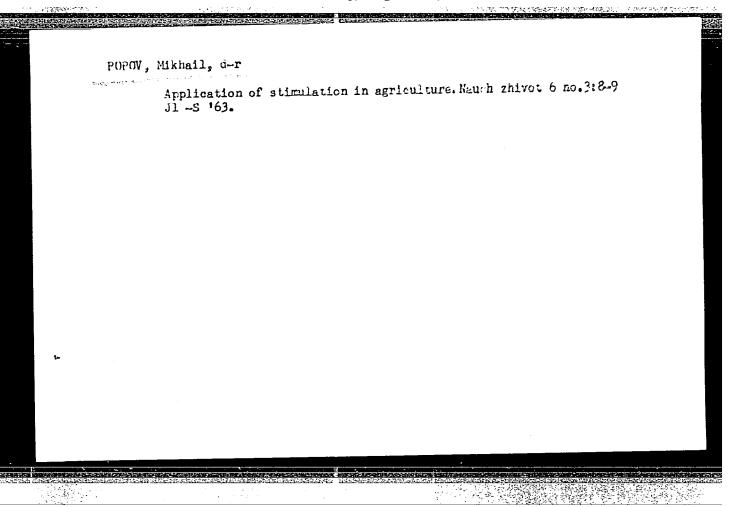
200

POPOV, M.D.

Study of the effect of penicillin on higher plants. Ukr. bot. zhur. 18 no.1:3-13 '61. (MIRA 14:3)

1. Bolgarskaya akademiya nauk, Institut biologii im. Metodiya Popova. (PENICILLIN) (PLANTS, EFFECT OF ANTIOBIOTICS ON)





POPOV, M. D., d-r, st. n.s.

Forty Eighth International Esperanto Congress and the science. Nauch zhivot 6 no.3:15 Jl-S '63.

1. Bulgarska akademiia na naukite, sekretar na Esperantska sektsiia pri SNRB.

BOROVSKIY, Boris Yevstaf'yevich; POPOV, Mikhail Dmitriyevich; PRONSHTEYN, Mark Yakovlevich; BRONSHTEYN, Ya.I., red.; PCHELKIN, Yu.V., red.; LEVONEVSKAYA, L.G., tekhn. red.; FOL'SKAYA, R.G., tekhn. red.

[Manual for automobilists] Spravochnaia kniga avtomobilista. Pod red. IA.I. Bronshteina. Leningrad, Lenizdat, 1962. 482 p. (MIRA 15:10)

(Motor vehicles) (Traffic regulations)
(Automobiles—Touring)

POPOV, M. D.

USSR/Electricity - Literature

Nov 51

\*Review of 'The Electrician's Handbook, Numbers 1, 2, 3 and 4, Under the General Editorship of A. D. Smirnov and P. F. Solov'yev, A. A. Tayts, V. I. Pogarskiy, M. D. Popov, Engineers, Moscow

"Elektrichestvo" No 11, pp 95, 96

The 1st 4 numbers of The Electrician's Handbook are the following: Ye. A. Proshchin's "Assembly of Cable Lines" 271 pp, R 13.50, 1948; P. F. Solov'yev's "Wires and Electric Lighting Installations 204 pp, R 10.50, 1950; D. V. Sokolov's "Assembly of Distribution Equipment for Substations Up to 35 KV" 328 pp, R 13.25, 1950; and K. D. Kofman's "Assembly of High-Power Electrical Equipment" 288 pp, R 12.25, 1950.

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CGCCCC58
                         TREASURE ISLAND BIELIOGRAPHIC REFORT
                                                            Call No.: TN686.T54
POPOV, M.D.
                EFROIMOVICH, Yu.E., Cand. of Tech. Sciences
PHASE I
                KRICHEVSKIY, G.M., Engineer
                 MALAYA, R.Yu., Cand. of Tech. Sciences, deceased.

NEIFAKH, G.M., Cand. of Tech. Sciences
 BOOK
                LEVITANSKIY, B.A., Engineer
    Authors:
                 SMORODINSKIY, Ia.M., Cand. of Tech. Sciences
                  SOSUNOV, M.N., Engineer
                  STASYUK, V.N., Engineer
                  FEDOSEEV, L.M., Engineer
       Full Title: A HANDBOOK FOR ELECTROTECHNICAL PERSONNEL IN FERROUS METALLURGICAL
       Transliterated Title: Spravochnik elektrika predpriatii chernoi metallurgii
        Publishing House: State Publishing House of Scientific-Technical Literature on National House: State Publishing House:
     Publishing Data
                                                                  Tech. Ed.: None.
         Date: 1952
             Compiler: Tikhomirov, I.G., Engineer
         Editorial Staff
```

POPOV, M.D.

2/2

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Call No.: TN686.T54

Full Title: A MANDBOOK FOR ELECTROTECHNICAL PERSONNEL IN FERROUS METALLURGICAL

INDUSTRIES

Shalyapin, M.G. Editors:

Levitanskiy, B.A.

Appraiser: None.

Text Data

A detailed handbook containing technical data on specifications, Coverage:

standards, design and operation of various types of electrical equipment in ferrous metallurgical industries: electric power supply plants and their distributing systems, transforming stations and transmission lines (high and low tension), blast furnace works, rolling

mill plants, open-hearth plants, mines, electrical steel smelting and ferroalloy furnaces, sintering plants, coke plants, and electrical

transport. Tables and diagrams. Subject index. A handbook for electrotechnical personnel of metallurgical industries.

Purpose:

No. of Russian references: References listed at end of each chapter.

Available: Library of Congress.

POPOV, M. D. Cand. Biolog. Sci.

Dissertation: "Morphological Cycle of Follicular Epithelium and its Significance in the Development of Ovocytes." Moscow Technical Education

Institution of the Fish Industry -- MOSRYBVTUZ, 10 Oct 47.

SO: Vechernyaya Moskva, Oct, 1947 (Project #17836)

GONCHAROV, G.D., POPGV, M.D., ANTIPOVA P.S., BISHEV, L.L.

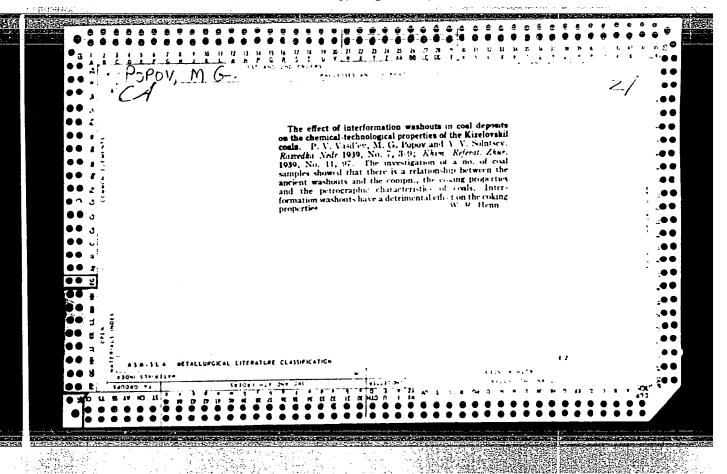
Disease among young pike perch in the Sea of Azer in 1951-1952.

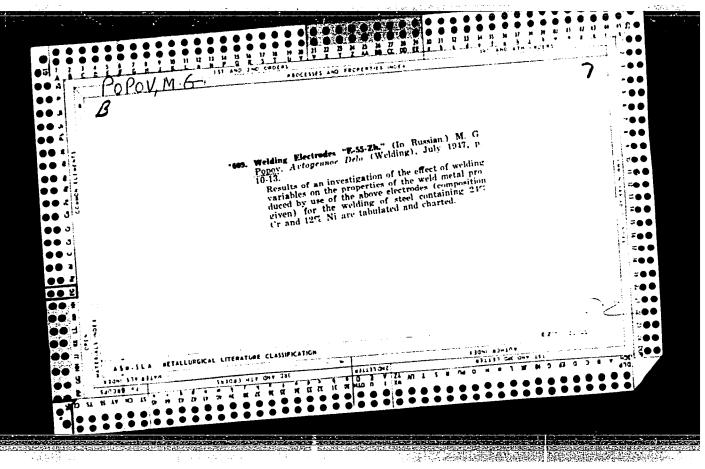
Trudy VNIRO 31 no.2:249-258 55.

(Fishes. Diseases and pests)

(Fishes. Diseases and pests)

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FOFOV, M. C.

Kontaktmaia stykovaia svarka detalei bol'shikh sechenii. (Vestn. Mash., 1948, no. 1, p. 44-49)

Resistance butt welding of larger section parts.

DLC: TN4. V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

KOMAROV, V.L., akademik, glavnyy red.; SHISHKIN, B.K., red. izdaniya;
BOBROV, Ye.G., doktor biol.nauk, prof.red.; VASIL'CHEHKO, I.T.,
red.; GORSHKOVA, S.G., red.; GRIGOR'YEV, Yu.S., red.; GHUBOV, V.I.,
red.; DOROFRYEV, P.I., red.; IL'INSKAYA, I.A., red.; KIOKOV, M.V.,
red.; KUPRIYANOVA, L.A., red.; LINCHEVSKIY, I.A., red.; NOVOPOKROVSKIY, I.V., red.; POBEDIMOVA, Ye.G., red.; POPOV, M.G., red.;
POYARKOVA, A.I., red.; SHTEYNBERG, Ye.I., red.; TSVELEV, N.N., red.;
SMIRNOVA, A.V., tekhn.red.

[Flora of the U.S.S.R.] Flora SSSR. Moskva. Izd-vo Akad. nauk SSSR, 1958. 775 p. (MIRA 12:7)

1. Chlen-korrespondent AN SSSR (for Shishkin). (Botany)

BOBROV, Ye.G., doktor biol.nauk, prof.; VASIL'CHENKO, I.T.; GORSHKOVA, S.G.; GRIGOR'YEV, Yu.S.; GRUBOV, V.I.; DOROFEYEV, P.I.; IL'INSKAYA, I.A.; KIOKOV, M.V.; KUPRIYAHOVA, L.A.; LINCHEVSKIY, I.A.; HOVOPOKROVSKIY, I.V.; POBEDIMOVA, Ye.G.; POPOV, M.G.; POYAHKOVA, A.I.; SHTEYNBERG, Ye.I.; TSVELEV, N.N.; SHISHKIN, B.K., red. izdaniya; SMIRNOVA, A.V., tekhn.red.

[Dicotyledons] Dicotyledons. Moskva, Izd-vo Akad.nauk SSSR, 1959.
775 p. (Akademia nauk SSSR. Botanicheskii institut. Flora SSSR, vol.23)
(Dicotyledons)

POPOV, Mikhail Grigor'yevich [deceased]; KHRZHANOVSKIY, V.G., otv. red.; KUL'TIASOV, I.M., red.izd-va; YEGOROVA, N.F., tekhn. red.

[Principles of florogenesis] Osnovy florogenetiki. Moskva, Izd-vo AN SSSR, 1963. 133 p. (MIRA 16:11) (Plants--Evolution)

POPOV, M. I. Dr. Technical Su.,

"Evaporation of Liquid Drops in a Gas Flow." Sub 27 Mar 47, Power Engineering Inst imeni G. M. Krzhizhanovskiy, Acad Sci USSR

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

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SOV/120-59-5-14/46

AUTHORS:

Morozov, A.G., Nekrasov, K.G. and Popov, M.I.

TITLE:

A Hodoscope Fitted with Small-diameter Counters Fed from

a Pulsed Source

PERIODICAL:

Pribory i tekhnika eksperimenta, 1959, Nr 5,

pp 64 - 68 (USSR)

ABSTRACT:

Various fillings are used in the counters in order to obtain the best performance. Figure 1 shows how the efficiency P varies with  $m = M/M_{\odot}$ , a parameter speci-

fying what fraction of the electrons produced by an ionizing event is collected by the cathode (m negative) or by the wire (m positive). M specifies the effect of voltages less than that required to initiate a discharge during the interval from  $t_1$  (when the ionising event

occurs) to to to (when the voltage is sufficient to cause

a discharge). Eq (1) gives M in formal form. Similarly, M is the effect produced by a voltage

sufficient to initiate a discharge in a counter whose

Card1/4

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SOV/120-59-5-14/46

A Hodoscope Fitted with Small-diameter Counters Fed from a Pulsed Source

cathode has a diameter D and whose wire has a diameter d (Eq 2); k/p is the electron mobility in the gas at a pressure p. (The quantity  $\alpha$  in Figure 1 is the mean number of electrons left behind in a length equal to the radius of the counter by the ionizing particle.) These curves are used to show, what is surely obvious, that the rise time of the supply pulse should be as short as possible.

Figure 2 shows the pulse-supply source, in which the two thyratrons are hydrogen-filled and give a current rising at 100 Musec; the duration of the output pulse is adjustable from 1.5 µsec upwards. The delay varies from 0.2 to 0.4 µsec. A capacitance of 1000 pF attached to the output lengthens the rise time from

 $3 \times 10^{-8}$  sec to  $5 \times 10^{-8}$  sec. Figure 3 shows some results for two counters filled with argon-isopentane; the curves were recorded with 1 500 V pulses lasting 3 µsec, and delayed by 0.3 µsec. Here,

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SOV/120-59-5-14/46

A Hodoscope Fitted with Small-diameter Counters Fed from a Pulsed Source

is the steady (clearing) voltage applied to the counters. The rise time of the pulse cannot be made much shorter, so these counters are not usable; Figure 4 shows results for counters filled with argon-methylal, used with 2 µsec 1 500 V pulses delayed by 0.7 µsec (counter diameter 9.6 mm). Here, the methylal gives 1/6 of the total gas pressure. This design is also unsuitable. Resort is made to neon, which can be used at high pressures without demanding very high voltages. Figure 5 relates to counters 7.5 mm in diameter and containing neon only at 2 atm; the efficiency (Curve 1) and false count rate (Curves 2) are shown as functions of pulse voltage. Small clearing voltages are effective. Figure 6 gives more details for these counters; the pulse voltage is 1 100 V, the pulse length is 2 µsec, the clearing voltage is shown horizontally and the delay times are, respectively, 0.7, 1.5, 2.5 and 4.5 µsec for Curves 1-4. The parameters finally chosen are -5 V clearing and the shortest delay time. (The efficiency is constant if the product of the clearing voltage and delay

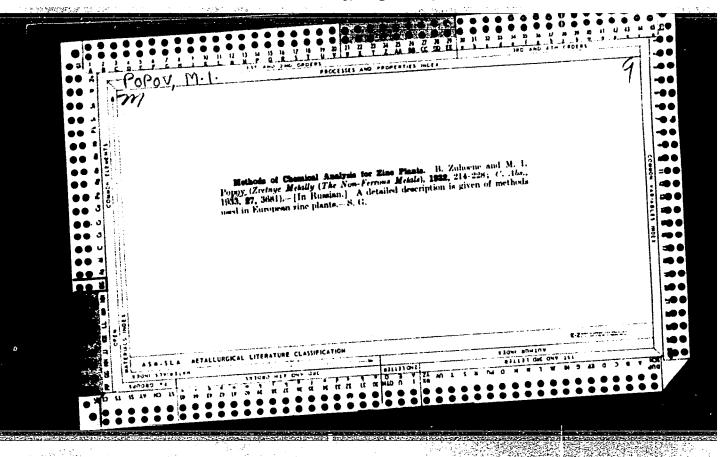
Card3/4

and Strain British

ALEKSANDROV, A.P.; POPOV, M.I.

Polishing characteristics and the resistance to wear of felt made with synthetic fibers. Stek.i ker. 17 no.4: 12-14 Ap '60. (MIRA 13:8)

(Felt) (Glass mammfacture)



POPOV, M.I.

- 1. ZUBOVICH, S.I.; TOTOV, M.I.
- 2. USSR (600)
- 4. Côncrete Construction
- Use of form liners for drainage in concrete construction. Engs. S.I. Zubovich, M.I. Popov, Gidr. stroi. 22 no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

POPOV, M.I.

Dissertation: "Some Methods for Improving the Properties of the Surface Layers of Concrete." Cand Tech Sci, Leningrad Construction Engineering Inst, of Leningrad, 1954. (Referativnyy Zhurnal, Khimiya, Moscow, No 16, Aug 54)

SO: SUM 393, 28 Feb 1955

POPCV, M. I.

USSR / Gultivated Plants. Madicinal Plants. Essential Oil Plants. Toxic Plants.

: Rof Zhur - Biol., No 8, 1958, No 34858 Abs Jour

: 2000v, i. I. ..uthor

: not given : Lomon Trees in the Vicinity of Lockey Inst Title

: Sad i ogorod, 1957, #5, 71 Oris Pub

: Described is the Chinese lemon tree, a menorcious plant containing tonic and other stimulat-Abstract ing substances. Methods for its cultivation and

ust are described.

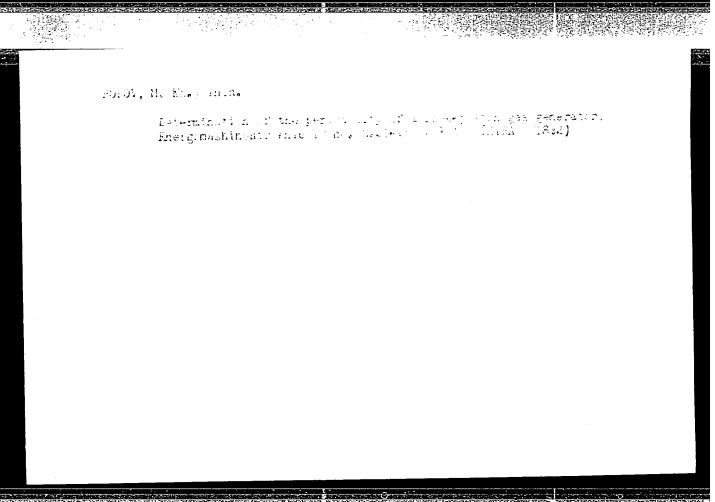
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# APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

POPOV, M.I.

Study of the bacterial contamination of bread during its transportation from the bakery to the buyer. Gig.i san. 26 no.12:89 D '61.

1. Iz Krasnodarskoy krayevoy sanitarno-epidemiologicheskoy (BAKERS AND BAKERIES -- HYGIENIC ASPECTS) stantsii. (BREAD\_BACTERIOLOGY)



- POPOV. M. N., KAZAKEVICH, T. A.
- USSR (600)
- Philosophy History
- Discussion of the rough copy of the second volume of "History of Philosophy." Vest. Len. un., 7, No. 3, 1952

1953. Unclassified. Monthly List of Russian Accessions, Library of Congress, February

POPON, M.N.

99-11-2/5

AUTHOR:

Popov, M.N., Chief of the Main Administration for Hydraulic Engineering of the Ministry of Agriculture, RSFSR.

TITLE:

Development of Water Resources in the RSFSR (Razvitiye vo-dokhozyastvennykh rabot v RSFSR) (40th Anniversary of the Great October Revolution) (K 40-oy godovshchine Velikogo Oktyabrya)

PERIODICAL:

Gidrotekhnika i Melioratsiya, 1957, No. 11, pp. 15-30, (USSR)

ABSTRACT:

The Communist Party and the Soviet government have always endeavored to increase agricultural production and thus raise the general productive capacity of the USSR. There are vast the general productive capacity of the USSR. There are vast territories of fertile soil in the USSR, where precipitation is insufficient or irregularly distributed, and where crop failures occur from lack of moisture. In contrast, other parts of the USSR suffer from abundant rainfall, and require parts of the USSR suffer from abundant rainfall, and require drainage. The Soviet government has appropriated progressively larger sums for melioration purposes during the course it is 1957, and 1956, the expenditures for melioration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million rubles, and 477 million rubles oration amounted to 379 million ruble

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CIA-RDP86-00513R00134

99-11-2/5

Development of Water Resources in the RSFSR (40th Anniversary of the Great October Revolution)

karskaya and Severo-Osetinskaya ASSRs and their border territories. The acreage under irrigation in the North Caucasus was increased from 145,000 hectares before the October Revolution to 712,000 hectares. Large irrigation projects were carried out during the Soviet regime to supply with water extensive sheep raising ranges of the Ural Mountains and Siberia. Construction of the Nevinnomyskiy canal in the Stavropol Kray was completed in 1948. In 1953, the Novo-Troitskiy Hydro-Electric Power Plant with a discharge capacity of 375 cu m/sec was built, which delivered irrigation water through the 123km-long Pravo-Yegorskiy canal for 19,000 hectares. In 1957, Stavropolstroy started construction of the Kuban'-Kalausskiy irrigation system to supply 2.9 million hectares with water and put 198,000 hectares under irrigation. Included in this system are a 33-m high earthen dam, a reinforced concrete headgate to discharge 180 cu m/sec or 2.12 billion cu m an-Through the 159-km long main canal into a reservoir Calente Ozera of a capacity